

IN THE CLAIMS:

Please cancel claims 1-5, as shown in the complete list of claims that is presented below.

Claims 1-5 (cancelled).

6. (original) A method of reducing debugger impact through motion of an IV-breakpoint set within a program loop, where the IV-breakpoint and the loop are controlled by an induction variable having an induction rate that is determinable at least when the IV-breakpoint is satisfied, said method comprising:

extracting, from program code within the loop, the induction rate;

extracting, from the IV-breakpoint, a final value for which the IV-breakpoint may be satisfied; and

if the IV-breakpoint is satisfied and the induction variable has a present value that would be beyond the final value upon a next iteration of the loop based on the induction rate, removing the IV-breakpoint.

7. (original) The method of claim 6, further comprising:

if the IV-breakpoint is satisfied and the present value of the induction variable would be beyond the final value upon the next iteration of the loop based on the induction rate, setting, at a first loop exit program position, a first reset breakpoint; and

if said first reset breakpoint is satisfied, reestablishing the IV-breakpoint.

8. (original) The method of claim 7, further comprising:

if said first reset breakpoint is satisfied, removing said first reset breakpoint.

9. (original) The method of claim 6, further comprising:

if the IV-breakpoint is satisfied and the present value of the induction variable would be beyond the final value upon the next iteration of the loop based on the induction rate, setting, at a second loop exit program position, a second reset breakpoint; and

if one of said first and second reset breakpoints is satisfied, reestablishing the IV-breakpoint.

10. (original) The method of claim 9, further comprising:

if one of said first and second reset breakpoints is satisfied, removing said first and second reset breakpoints.

11. (previously presented) An article of manufacture comprising:

a computer program medium readable by a computer and embodying one or more instructions executable by the computer to perform a method of reducing debugger impact through motion of an IV-breakpoint set within a program loop, where the IV-breakpoint and the loop are controlled by an induction variable having an induction rate that is determinable at least when the IV-breakpoint is satisfied, wherein the method of reducing debugger impact includes the steps of

extracting, from program code within the loop, the induction rate;

extracting, from the IV-breakpoint, a final value for which the IV-breakpoint may be satisfied; and

if the IV-breakpoint is satisfied and the induction variable has a present value that would be beyond the final value upon a next iteration of the loop based on the induction rate, removing the IV-breakpoint.

12. (original) The article of manufacture of claim 11, wherein the method further comprises:

if the IV-breakpoint is satisfied and the present value of the induction variable would be beyond the final value upon the next iteration of the loop based on the induction rate, setting, at a first loop exit program position, a first reset breakpoint; and

if said first reset breakpoint is satisfied, reestablishing the IV-breakpoint.

13. (original) The article of manufacture of claim 12, wherein the method further comprises:

if said first reset breakpoint is satisfied, removing said first reset breakpoint.

14. (original) The article of manufacture of claim 12, wherein the method further comprises:

if the IV-breakpoint is satisfied and the present value of the induction variable would be beyond the final value upon the next iteration of the loop based on the induction rate, setting, at a second loop exit program position, a second reset breakpoint; and

if one of said first and second reset breakpoints is satisfied, reestablishing the IV-breakpoint.

15. (original) The article of manufacture of claim 14, wherein the method further comprises:

if one of said first and second reset breakpoints is satisfied, removing said first and second reset breakpoints.